

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-12 (Canceled).

13. (New) A system for mass transfer and elimination of contaminants, comprising:

gas convection means for providing a gaseous stream;

membrane generation means for generating a membrane cell;

liquid supplying means for providing a liquid to the membrane generation means; and

ejection means for providing an exit for the gaseous stream,

wherein a liquid membrane is generated by said membrane cell when said membrane cell passes through said liquid supplying means, and

wherein said liquid membrane collapses when in contact with the gaseous stream from said gas convection means, and

wherein the collapsed liquid membrane removes contaminants from the gaseous stream while simultaneously transferring liquid molecules to the gaseous stream.

14. (New) A system according to claim 13, wherein said membrane generation means comprises a plurality of discs and a plurality of plates in a cylindrical arrangement to form a plurality of membrane cells.

15. (New) A system according to claim 14, wherein the plurality of discs include a plurality of slots and a plurality of orifices.

16. (New) A system according to claim 14, wherein an interior part of the cylindrical arrangement defines a chamber in which the contaminants from the gaseous stream are decanted.

17. (New) A system according to claim 14, wherein one of the plurality of membrane cells that passes through the liquid supplying means forms one of a side liquid membrane in a side orifice of one of the plurality of membrane cells, an upper membrane in a widest portion of one of the plurality of membrane cells, a lower membrane in a thinnest

portion of one of the plurality of membrane cells and a parallel internal membrane in an interior part of one of the plurality of membrane cells.

18. (New) A system according to claim 13, wherein the liquid comprises water, and wherein the gaseous stream comprises air.

19. (New) A device for mass transfer and elimination of contaminants, comprising:

a housing;

a fan for forcing a gaseous stream into an interior of said housing;

a container for containing a liquid in said housing;

a plurality of membrane cells disposed in a cylindrical arrangement and rotatably mounted within said housing,

wherein a liquid membrane is generated when at least one of said plurality of membrane cell passes through the liquid, and

wherein said liquid membrane collapses when in contact with the gaseous stream, and

wherein the collapsed liquid membrane removes contaminants from the gaseous stream while simultaneously transferring liquid molecules to the gaseous stream.

20. (New) A device according to claim 19, wherein the liquid comprises water, and wherein the gaseous stream comprises air.

21. (New) An apparatus according to claim 19, further comprising aromatizers and disinfectants.

22. (New) An apparatus according to claim 19, wherein an interior part of the cylindrical arrangement defines a chamber in which the contaminants from the gaseous stream are decanted.

23. (New) An apparatus according to claim 19, wherein at least one membrane cell has an entry surface area larger than an exit surface area, thereby causing the gaseous stream to exit at a higher velocity than a velocity of the gaseous stream when entering said at least one membrane cell.

24. (New) An apparatus according to claim 19, further comprising exterior channels having walls to provide a contact surface for the gaseous stream as it exits from the housing.

25. (New) An apparatus according to claim 19, wherein at least one of said plurality of cell membranes comprises a plurality of discs and a plurality of plates.

26. (New) A system according to claim 25, wherein the plurality of discs include a plurality of slots and a plurality of orifices.

27. (New) A system according to claim 19, wherein one of the plurality of membrane cells that passes through the liquid forms one of a side liquid membrane in a side orifice of one of the plurality of membrane cells, an upper membrane in a widest portion of one of the plurality of membrane cells, a lower membrane in a thinnest portion of one of the plurality of membrane cells and a parallel internal membrane in an interior part of one of the plurality of membrane cells.

28. (New) A method of eliminating contaminants by a device comprising, a housing, a fan for forcing a gaseous stream into an interior of said housing, a container for containing a liquid, a plurality of membrane cells disposed in a cylindrical arrangement and rotatably mounted within said housing, the method comprising the steps of:

immersing at least one of said plurality of membrane cells in the liquid;

forming a liquid membrane by at least one of said plurality of membrane cells when said at least one membrane cell passes through the liquid;

collapsing the liquid membrane by contacting the liquid membrane with the gaseous stream; and

ejecting the gaseous stream from the housing,

whereby the collapsed liquid membrane removes contaminants from the gaseous stream while simultaneously transferring liquid molecules to the gaseous stream.